Journal of Clinical Ultrasound

Contents

Volume 23, 1995

January 1995

ORIGINAL ARTICLES

3 **Portal Vein Pulsatility in Normal and Cirrhotic Adults Without Cardiac Disease**

Ronald H. Wachsberg, MD, Laurence Needleman, MD, and Dorian J. Wilson, MD

17 **Image-Directed Color Doppler Ultrasonography of Kidney in Systemic Lupus Nephritis**

S. Süreyya Özbeck, MD, Süleyman Büyükberber, MD, Özden Tolunay, MD, M. Ilhan Erden, MD, Suat K. Aytaç, MD, and Ümit Ölmez, MD

21 **Measurement of Blood Flow Velocity in the Basal Cerebral Circulation: Advantages of Transcranial Color-Coded Sonography Over Conventional Transcranial Doppler**

P.J. Martin, MA, D.H. Evans, PhD, and A.R. Naylor, MD

27 **Comparison of Cerebral Blood Flow Velocity Estimation with Cranial Ultrasound Imaging for Early Prediction of Outcome in Preterm Infants**

Janet M. Rennie, MD, Heather Coughtrey, MB, Ruth Morley, MB, and David H. Evans, PhD

33 **Acceleration Time in Normal Fetal Umbilical Artery at Term and Its Relationship to the Cord Blood Hematocrit**

Fong-Ming Chang, MD, Bor-Lin Yao, MD, Chen-Hsiang Yu, MD, Soon-Cen Huang, MD, Yue-Shan Lin, MD, and Huei-Chen Ko

CASE REPORTS

38 **Ultrasound Characteristics of Jejunal Flap Used in Pharyngoesophageal Reconstruction**

A. Ahuja, FRCR, A. Zekri, FRCS, I. Davey, FRCR, C.O. Mok, FRCS, W. King, FRCS, and C. Metreweli, FRCR

42 **Retroperitoneal Melanotic Schwannoma: Ultrasonographic Features**

Daniel D. Do-Dai, MD, Vincent B. Ho, MD, Miguel J. Rovira, MD, Richard W. Knight, MD, and Patrick A. Twomey, MD

49 **Sonographic Findings in Chilaiditi Syndrome**

Chi-Sin Changchien, MD

52 **Prenatal Diagnosis of Congenital Hypophosphatasia**

Theera Tongsong, MD, Supatra Sirichotiyakul, MD, and Sumalee Siriangkul, MD

56 **Prenatal Diagnosis of Langer–Saldino Achondrogenesis**

Theera Tongsong, MD, Jatupol Srisomboon, MD, and Jutamas Sudasna, MD

59 **Diagnosis of a Posterior Left Ventricular Pseudoaneurysm by Multiplane Transesophageal Echocardiography**

Wolfgang Fehske, MD, Athanasios Kranidis, MD, Paul Gerhard Kirchhoff, MD, Heyder Omran, MD, Gerhard Lauck, MD, and Berndt Lüderitz, MD

63 **Postirradiation Female Urethral Diverticula: Diagnosis by Voiding Endovaginal Sonography**

Gianfranco Iula, MD, Maria Luisa Mangoni di S. Stefano, MD, Luigi Castaldi, MD, and Enrico del Vecchio, MD

February 1995

SYMPOSIUM ON NEUROVASCULAR SONOGRAPHY

69 **Introduction to Symposium on Neurovascular Sonography**

Michael G. Hennerici

71 **Biophysical Principles of Vascular Diagnosis**

Arnold P.G. Hoeks, PhD, and Robert S. Reneman, MD

81 **Experimental Aspects of High-Intensity Transient Signals in the Detection of Emboli**

Hugh S. Markus, MD, and Charles H. Tegeler, MD

89 **Transcranial Color-Coded Duplex Sonography, Magnetic Resonance Angiography, and Computed Tomography Angiography: Methods, Applications, Advantages, and Limitations**

Ralf W. Baumgartner, MD, Heinrich P. Mattle, MD, and Rune Aaslid, PhD

113 **Quantification and Assessment of Carotid Artery Lesions: Degree of Stenosis and Plaque Volume**

Ph. Arbeille, MD, PhD, C. Desombre, MD, B. Aesh, MD, M. Philippot, MD, and F. Lapierre, MD

125 **Cerebrovascular Regulation and Vasoneuronal Coupling**

M. Daffertshofer, MD, and M. Hennerici, MD

139 **New and Future Developments in Cerebrovascular Ultrasound, Magnetic Resonance Angiography, and Related Techniques**

Stephen Meairs, MD, Jaochim Röther, MD, Wolfgang Neff, PhD, and Michael Hennerici, MD

VOLUME CONTENTS

March/April 1995

153 **Multiplane Transesophageal Echocardiographic Evaluation of Transvenous Defibrillation Leads**

Wolfgang Fehske, MD, Werner Jung, MD, Heyder Omran, MD, Matthias Manz, MD, Rainer Moosdorf, MD, and Berndt Lüderitz, MD

163 **Role of Transvaginal Sonography in the Detection of Endometriomata**

Eugenio Volpi, PhD, Tiziana De Grandis, MD, Giancarlo Zuccaro, MD, Antonio La Vista, MD, and Piero Sismondi, MD

169 **Further Observations on the Usefulness of the Sonographic Murphy Sign in the Evaluation of Suspected Acute Cholecystitis**

Robert L. Bree, MD

173 **Staging of Hilar Cholangiocarcinoma with Ultrasound**

Carlo Emanuele Neumaier, MD, Michele Bertolotto, MD, Rosaria Perrone, MD, Carlo Martinoli, MD, Francesco Loria, MD, and Enzo Silvestri, MD

179 **Thyroid Nodules: Re-Evaluation with Ultrasound**

Shodayu Takashima, MD, Haruki Fukuda, MD, Naoko Nomura, MD, Haruyoshi Kishimoto, MD, Tonsok Kim, MD, and Tetsuro Kobayashi, MD

185 **Refractory Hemolytic Anemia Secondary to Perivalvular Leak Diagnosed by Transesophageal Echocardiography**

John M. Formolo, MD, and Pablo Reyes, MD

189 **Color Doppler Ultrasound and Prenatal Diagnosis of Cleft Palate**

Giovanni Monni, MD, Rosa Maria Ibba, MD, Giovanni Olla, MD, Antonio Cao, MD, and Giangiorgio Crisponi, MD

192 **The Use of Color Doppler in the Diagnosis of Occult Breast Cancer**

Wei-Jei Lee, MD, Jan-Show Chu, MD, Mei-Fung Chung, BNr, and Kai-Mo Chen, MD

195 **Transvaginal Sonographic Confirmation of a Displaced Intrauterine Laminaria Tent Not Seen on Transabdominal Examination**

David M. Sherer, MD, Susan A. Smith, RDMS, and Ovadia Abulafia, MD

199 **Synovial Osteochondromatosis of the Hip: Role of Sonography**

Vidya R. Pai, MD, and Marnix van Holsbeeck, MD

204 **Fetal Splenic Cyst: Change in Size and Shape with Advancing Menstrual Age**

Masako Okada, MD, Toshiyuki Hata, MD, PhD, Yasuhide Ariyuki, MD, Atsushi Manabe, MD, Kohkichi Hata, MD, PhD, and Manabu Kitao, MD, PhD

207 **Sonographic Appearance of an Aberrant Pancreas with Unusual Characteristics**

Juan José Sánchez Ruano, PhD, María Luisa Legaz Huidobro, MD, Rafael Gómez Rodríguez, PhD, Tomas Artaza Varasa, MD, Jose Luis Martínez Potencianno, MD, and Esther Sánchez Díaz, MD

210 **Abdominoscrotal Hydrocele: Diagnosis by Sonography**

N. Subramania Sivam, MS, N. Ananthakrishnan, MS, Vikram Kate, MS, and C. Daniala, MD

May 1995

ORIGINAL ARTICLES

215 **Color Doppler Sonography: Anatomic and Physiologic Assessment of the Thyroid**

Karen J. Clark, MD, John J. Cronan, MD, and Francis H. Scola, MD

225 **Doppler Velocity Histogram Analysis of Hepatocellular Carcinoma**

Kazuaki Yasuhara, MD, Kunio Kimura, MD, Hiroshi Nakamura, MD, Makoto Iwadare, MD, Masao Ohto, MD, and Osamu Matsuzaki, MD

233 **Image-Directed Color Doppler Ultrasonography in the Evaluation of Superficial Solid Tumors**

S. Süreyya Özbek, MD, Remide Arkun, MD, Refik Killi, MD, Aysenur Memiş, MD, Aynur Dağdeviren, MD, and Erkan Sevinc, MD

239 **Image-Directed and Color Doppler Ultrasonography in the Diagnosis of Postbiopsy Arteriovenous Fistulas of Native Kidneys**

S. Süreyya Özbek, MD, Ahmet Memiş, MD, Refik Killi, MD, Erdal Karaca, MD, Caner Kabasakal, MD, and Sevgi Mir, MD

243 **Sonography of the Costal Cartilage: Normal Anatomy and Preliminary Clinical Application**

Yo Won Choi, MD, Jung-Gi Im, MD, Chi Sung Song, MD, and Jeong Sang Lee, MD

CASE REPORT

251 **Placental Infarction Simulating a Succenturiate Lobe**

Roger N. Leekam, MB, FRCP(C)

254 **Ultrasound Appearance of Parotid Castleman's Disease**

A.T. Ahuja, FRCR, I.C. Davey, FRCR, H.K. Ng, FRCPA, and C. Metreweli, FRCR

259 **Hepatic Hydatid Cyst Communicating with the Biliary Tract**

Blanca Vargas-Serrano, MD, Rafael Rodriguez-Romero, MD, and Ana Coarasa-Cerdan, MD

263 **Ultrasound-Guided Transperineal Needle Biopsy of the Prostate After Abdominoperineal Resection**

Bruno D. Fornage, MD, Colin P. Dinney, MD, and Patricia Troncoso, MD

266 ***Candida* Fungus Balls Presenting as Intraventricular Masses in Cranial Sonography**

William D. Winters, MD, Dennis W.W. Shaw, MD, and Edward Weinberger, MD

VOLUME CONTENTS

TECHNICAL NOTE

271 **An Easily Made, Low-Cost, Tissue-Like Ultrasound Phantom Material**

Ronald O. Bude, MD, and Ronald S. Adler, MD

June 1995

ORIGINAL ARTICLES

277 **Evaluation of Twin Growth Status at Birth Using Individualized Growth Assessment: Comparison with Conventional Methods**

Bishong Xu, MD, Russell L. Deter, MD, Lizabeth L. Milner, RN, BSN, RDMS, and Reba M. Hill, MD

287 **Causes of Increasing Width of Right Anterior Extrarenal Space Seen in Ultrasonographic Examinations**

Jyh-Jou Chen, MD, Chi-Sin Changchien, MD, and Chung-Huang Kuo, MD

293 **Ultrasonic "Honeycomb" Appearance of Uterine Submucous Fibroids Undergoing Cystic Degeneration**

Jacob R. Cohen, MD, Dov Luxman, MD, Joseph Sagi, MD, Joseph Jossiphov, MD, and Menachem P. David, MD

297 **Relationships Between Portal Blood Flow Measured by Image-Directed Doppler Ultrasonography and Hepatic Blood Flow Measured by Indocyanine Green Constant Infusion in Patients with Cirrhosis**

Massimo Bolognesi, MD, David Sacerdoti, MD, Carlo Merkel, MD, and Angelo Gatta, MD

305 **Role of Ultrasound in Managing Neuroblastoma Detected by Mass Screening: A Proposed Ultrasonographic Grading for Children with Neuroblastoma**

Tsuneo Hirata, MD, Hideki Tatara, MD, Yoshio Zaizen, MD, Sachiyo Suita, MD, Akinobu Matsuzaki, MD, and Kohji Ueda, MD

CASE REPORTS

314 **Triorchidism in the Sibling of a Patient with Recently Diagnosed Seminoma**

Alberto Bizzi, MD, Ray E. Stutsman, MD, and Stanford M. Goldman, MD

317 **A Case of Klatskin Tumor with an Unusual Sonographic Appearance**

Yechiel Barki, MD, and Miriam Katz, MD

321 **Gossypiboma: Ultrasound-Guided Removal**

Manish Jain, MD, Rajeev Jain, MD, and Sukhpal Sawhney, MD

324 **Antenatal Diagnosis of Persistent Right Umbilical Vein**

Yasuhide Ariyuki, MD, Toshiyuki Hata, MD, PhD, Atsushi Manabe, MD, Kohkichi Hata, MD, PhD, and Manabu Kitao, MD, PhD

327 **Gallbladder Tuberculosis: Sonographic Appearance**

Rajeev Jain, MD, Sukhpal Sawhney, MD, Dinesh Bhargava, PhD, and Manorama Berry, MD

330 **Discordant Umbilical Artery Flow Velocity Waveforms in Spontaneous Umbilical Cord Hematoma**

Walko Sepulveda, MD, Andrew H. Shennan, MD, Sarah Bower, MD, and Nicholas M. Fisk, PhD

July/August 1995

ORIGINAL ARTICLES

339 **Sonohysterography of the Uterine Cavity: Preliminary Investigations**

Pascal Gaucherand, MD, Jean M. Piacenza, MD, Bruno Salle, MD, and René Ch. Rudigoz, MD

349 **Ultrasonically Guided Needle Biopsy of Anterior Mediastinal Masses: Comparison of Carcinomatous and Non-Carcinomatous Masses**

Wu-Huei Hsu, MD, Chi-Der Chiang, MD, Jeng-Yuan Hsu, MD, Po-Chung Kwan, MD, Chun-Lieh Chen, MD, and Chih-Yi Chen, MD

357 **Gallbladder Wall Thickening in Dengue Hemorrhagic Fever: An Ultrasonographic Study**

Melani W. Setiawan, MD, Tatang K. Samsi, MD, Thomas N. Pool, MD, D. Sugianto, MD, and H. Wulur, MD

363 **Visceral Slide for Intraperitoneal Adhesions? A Prospective Study in 48 Patients with Surgical Correlation**

R. Uberoi, MRCP, FRCR, H. D'Costa, FRCS, C. Brown, MS, FRCS, and P. Dubbins, BSc, FRCR

367 **Evaluation of Breast Tumors with Color Doppler Imaging: A Comparison with Image-Directed Doppler Ultrasound**

San-Kan Lee, MD, Tain Lee, MD, Kuan-Rong Lee, PhD, Yeou-Gie Su, MD, and Tse-Jia Liu, MD

CASE REPORTS

374 **A Case of Extrahepatic Portal Vein Aneurysm Accompanying Lupoid Hepatitis**

Yuko Itoh, MD, Toshihiko Kawasaki, MD, Haruhiro Nishikawa, MD, Jiro Ochi, MD, Kensuke Miura, MD, and Fuminori Moriyasu, MD

379 **The Hypoechoic Halo: A Finding in Renal Lymphoma**

F. Cruz Villalón, MD, J. Escribano Fernandez, MD, and T. Ramirez García, MD

382 **Aortic Dissections Masquerading as Aortic Valvular Disease**

Song Wei Xie, MD, Michael H. Picard, MD, and Neil J. Weissman, MD

388 **Hydrocolpos in an 18-Year-Old Man with Mixed Gonadal Dysgenesis**

Menashe Barzilai, MD

391 **Changing Ultrasonographic Appearance of a Vesico-Allantoic Abdominal Wall Defect**

Renee M. Nowell, RDMS, Richard Jaffe, MD, Stephan R. Sanko, MD, and William C. Hulbert, Jr., MD

395 **LETTER TO THE EDITOR**

September 1995

ORIGINAL ARTICLES

399 **Changes in Transmitral and Pulmonary Venous Flow Patterns in the First Day of Life**

Kenji Harada, MD, Yasushi Takahashi, MD, Terukazu Shiota, MD, Masamichi Tamura, MD, and Goro Takada, MD

407 **Hypertensive Intra-Arterial Chemotherapy for Endometrial Carcinoma Assessed by Transvaginal Doppler Ultrasound and Magnetic Resonance Imaging**

Kohkichi Hata, MD, PhD, Toshiyuki Hata, MD, PhD, Ritsuto Fujiwaki, MD, Atsushi Manabe, MD, and Manabu Kitao, MD, PhD

413 **Abdominal Tuberculosis: Comparison of Sonography and Computed Tomography**

Mehraj Sheikh, MRCR, Fikri Abu-Zidan, FRCS(G), Moshriq Al-Hilaly, FRCS, and Abdulla Behbehani, FRCS

419 **Antenatal Sonographic Detection of the Proximal Esophageal Segment: Specific Evidence for Congenital Esophageal Atresia**

Shoji Satoh, MD, PhD, Takeshi Takashima, MD, Hajime Takeuchi, MD, Takashi Koyanagi, MD, PhD, and Hitoo Nakano, MD, PhD

425 **Pylorus Subjacent to the Gallbladder: An Additional Finding in Hypertrophic Pyloric Stenosis**

Deborah Levine, MD, David C. Wilkes, MD, and Roy A. Filly, MD

429 **Flow Reversal in the Right Anterior Branch of the Portal Vein: "Bicolor Portal Vein" Color Doppler Analysis**

Lluís Donoso, MD, J. Antoni Parellada, MD, Antonio Martínez-Noguera, MD, Eduard Sanchís, MD, and Josep M. Sabaté, MD

CASE REPORTS

435 **Ultrasound Appearance of Primary Carcinoid Tumor of the Gallbladder Associated with Carcinoid Syndrome**

Zarrin Salimi, MD, and Melhem Sharafuddin, MD

438 **Complex Lesion of the Gastric Wall: An Unusual Presentation of Ectopic Pancreas**

T. Laurent, MD, D. Fournier, MD, F. Doenz, MD, T. Karaaslan, MD, and F.A. Wassmer, MD

442 **Antenatal Sonographic Findings of Fetal Adrenal Hemorrhage**

P.J. Strouse, MD, R.A. Bowerman, MD, and A.E. Schlesinger, MD

447 **Breast Sparganosis: Mammographic and Ultrasound Features**

Soo Young Chung, MD, Ki Soon Park, MD, Yul Lee, MD, and Chung Ki Park, MD

452 **Meckel–Gruber Syndrome Associated with Rokitansky–Kuster–Hauser Syndrome**

Emmanuel Agapitos, MD, and Constantinos Christodoulou, MD

October 1995

ORIGINAL ARTICLES

461 **A Randomized Trial of Transcutaneous Extraction Atherectomy in Femoral Arteries: Intravascular Ultrasound Observations**

Shigeru Nakamura, MD, Robert M. Conroy, MD, Ian L. Gordon, MD, Larry-Stuart Deutsch, MD, Bavini Maheswaran, MBBS, Curtis S. Antone, RT, and Jonathan M. Tobis, MD

473 **Degenerated Uterine Leiomyoma Mimicking Acute Appendicitis: Sonographic Diagnosis**

Marshall E. Yacoe, MD, and R. Brooke Jeffrey, Jr., MD

477 **Hepatic Venous Doppler Waveforms: Changes in Pregnancy**

C.A. Roobottom, FRCR, J.D. Hunter, MRCP, M.J. Weston, FRCR, and P.A. Dubbins, FRCR

483 **Review of Artifacts Associated with Transrectal Ultrasound: Understanding, Recognition, and Prevention of Misinterpretation**

Frans-jan J.H. Hulsmans, MD, PhD, Jonas A. Castelijns, MD, PhD, Jacques W.A.J. Reeders, MD, PhD, and Guido N.J. Tytgat, MD, PhD

CASE REPORTS

495 **Tuberculous Myositis: CT and Sonographic Findings in Two Cases**

Andrew C. Wilbur, MD, Alexander A. Gorodetsky, BS, John F. Hibbeln, MD, and Robert I. Aizenstein, MD

500 **Biliary Ascariasis: Ultrasound Diagnosis**

Pankaj Mehta, MD, A.K. Sharma, MD, Sanjay Saluja, MD, and N.K. Prabhu, MBBS

502 **Cor Triatriatum Dexter Diagnosed by Transesophageal Echocardiography**

Rosario Fiorilli, MD, Giancarlo Argento, MD, Biagio Tomasco, MD, and Walter Serino, MD

505 **The Engorged Fallopian Tube: A New Sonographic Sign for Adnexal Torsion**

Benjamin Caspi, MD, Peleg Ben-Galim, MD, Ariel Weissman, MD, and Zvi Appleman, MD

VOLUME CONTENTS

November/December 1995

ORIGINAL ARTICLES

511 **Increased Uterine and Ovarian Vascular Resistance Following Filshie-Clip Sterilization: Preliminary Findings Obtained with Color Doppler Ultrasonography**

Susanna Sumiala, MD, Jouko Pirhonen, MD, PhD, Juhani Touminen, Ph Lic, and Juhani Mäenpää, MD, PhD

517 **Transcranial Doppler Ultrasound Assessment of Intracranial Hemodynamics in Children with Diabetic Ketoacidosis**

William H. Hoffman, MD, Ryszard M. Pluta, MD, Michelle B. Wagner, MD, Asma Q. Risher, MD, and Jack A. Yanovski, MD

525 **Early Fetal Circulation in Pregnancies Complication by Retroplacental Hematoma**

Giuseppe Rizzo, MD, Alessandra Capponi, MD, Mirella Soregaroli, MD, Domenico Arduini, MD, and Carlo Romanini, MD

531 **Ultrasound-Guided Fine-Needle Aspiration Biopsy of Solitary Pulmonary Nodules**

Chi-Chiang Chen, MD, Wu-Huei Hsu, MD, Chih-Mei Huang, CTIAC, Chi-Yi Chen, MD, Po-Cheung Kwan, MD, and Chi-Der Chiang, MD

537 **Quantitative Characterization of Color Doppler Images: Reproducibility, Accuracy, and Limitations**

Stefan Delorme, MD, Gerald Weisser, MD, Ivan Zuna, PhD, Martin Fein, MD, PhD, Adolf Lorenz, MSc, and Gerhard van Kaick, MD

551 **Assessment of Fetal Breathing Movements Using Three Different Ultrasound Modalities**

Joseph P. Brunner, MD, and Teresa Coggins, RDMS

CASE REPORTS

554 **Prenatal Diagnosis of Mucoid Degeneration of the Umbilical Cord**

Boris Petrikovsky, MD, PhD, Beth Gross, MD, Myron Susin, MD, and Nancy Holsten, RDMS

556 **Duplication of Gallbladder Associated with Cholelithiasis: Sonographic Detection**

A.L. Chouchan, MD, Sunita Chouhan, MB, BS, and M.K. Chouhan, MS

558 **A Prune-Induced Small Intestinal Obstruction: Sonographic Appearance**

Man-Shan Kong, MD, and Kuei-Liang Wang, MD

561 **Ultrasonographic Findings in Scrotal Filarial Elephantiasis**

Hung-Ju Shen, MD, Mein-Kain Gueng, MD, Ching-Jiunn Wu, MD, Guo-Shu Huang, MD, John Wang, PhD, and Ting-Ywan Chou, MD

565 **INDEXES TO VOLUME 23**